AMENDMENTS

IN THE CLAIMS:

Please amend the claims to read as follows:

1-33. (canceled).

34. (currently amended) **A** **[[P]]p**rocess for preparing acarbose, comprising the steps of:

(i) ~~**expressing DNA in a suitable**~~ **transforming a host cell with a recombinant DNA molecule which comprises acarbose-synthesizing genes**, and

(ii) **culturing said host cell under conditions such that said DNA molecule is expressed, and said acarbose is synthesized, and**

(iii) isolating **said acarbose** from culture supernatants of said host cell ~~**acarbose**~~, wherein said DNA **molecule** is selected from the group consisting of (a) **the nucleotide sequence of SEQ ID NO:7; (b) a nucleotide sequence which is capable of hybridizing, under stringent conditions, with the sequence of SEQ ID NO:7; (c)** nucleotides 1-720 of ~~**Table 4 (b**~~**SEQ ID NO:7; (d)** nucleotides 720**[[to]]**-2006 of ~~**Table 4**~~**SEQ ID NO:7**; (**[[c]]e**) nucleotides 2268-3332 of ~~**Table 4**~~ **SEQ ID NO:7**; (**[[d]]f**) nucleotides 3332-4306 of ~~**Table 4**~~**SEQ ID NO:7**; (**[[e]]g**) nucleotides 4380-5414 of ~~**Table 4**~~**SEQ ID NO:7**; and (**[[f]]h**) nucleotides 5676-6854 of ~~**Table 4**~~**SEQ ID NO:7**.

35. (currently amended) **A** **[[P]]p**rocess for preparing acarbose according to Claim 34, wherein said host cell is selected from the group consisting of ~~**E. coli, Bacillus subtilis, Streptomyces, Actinoplanes, Ampullariella or Streptosporangium strains, Streptomyces hygroscopicus var. limoneus or**~~

~~Streptomyces glaucescens, Aspergillus niger, Penicillium chrysogenum and Saccharomyces cerevisiae~~ *E. coli, Bacillus subtilis, Streptomyces, Actinoplanes, Ampullariella* or *Streptosporangium strains, Streptomyces hygroscopicus var. limoneus* or *Streptomyces glaucescens, Aspergillus niger, Penicillium chrysogenum* and *Saccharomyces cerevisiae*.

36. (currently amended) A [[P]]process for preparing acarbose comprising the steps of:

(i) eliminating ~~DNA in a natrual acarbose~~ or altering endogenous acarbose-synthesizing genes in a transformed, naturally-producing acarbose host cell; and,

(ii) culturing said host cell under conditions such that the remaining genes are expressed, and acarbose is synthesized; and,

(iii) isolating acarbose from said host cell; wherein said ~~DNA is~~ remaining genes alter the acarbose biosynthesis rate, and are selected from the group consisting of (a) nucleotides 1-720 of ~~Table 4~~SEQ ID NO:7, (b) nucleotides 720[[to]]-2006 of ~~Table 4~~ SEQ ID NO:7; (c) nucleotides 2268-3332 of ~~Table 4~~SEQ ID NO:7; (d) nucleotides 3332-4306 of ~~Table 4~~SEQ ID NO:7; (e) nucleotides 4380-5414 of ~~Table 4~~SEQ ID NO:7; and (f) nucleotides 5676-6854 of ~~Table 4~~SEQ ID NO:7.

37. (currently amended) A [[P]]process for preparing acarbose according to Claim 36, wherein said host cell is selected from the group consisting of ~~streptomyces glaucescens GLA.O and Actinoptanes sp~~ *streptomyces glaucescens GLA.O* and *Actinoplanes sp*.

38-48. (canceled).